

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC111518AL\  
 Data File : FC037723.D  
 Signal(s) : FID1A.CH  
 Acq On : 15 Nov 2018 23:20  
 Sample : J5942-02  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Alaphatic EPH 111318.M  
 Title : GC Extractables

Signal : FID1A.CH

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 3.031       | 3.002        | 3.051      | BV       | 2540           | 22853        | 0.49%          | 0.016%        |
| 2         | 3.059       | 3.051        | 3.087      | VV       | 1947           | 13554        | 0.29%          | 0.009%        |
| 3         | 3.111       | 3.087        | 3.181      | PV       | 23554          | 268262       | 5.77%          | 0.184%        |
| 4         | 3.189       | 3.181        | 3.243      | VV       | 912            | 13654        | 0.29%          | 0.009%        |
| 5         | 3.276       | 3.243        | 3.301      | PV       | 1311           | 21556        | 0.46%          | 0.015%        |
| 6         | 3.338       | 3.301        | 3.356      | PV       | 1758           | 35996        | 0.77%          | 0.025%        |
| 7         | 3.368       | 3.356        | 3.419      | VV       | 2869           | 45900        | 0.99%          | 0.031%        |
| 8         | 3.455       | 3.419        | 3.494      | VV       | 3642           | 106275       | 2.29%          | 0.073%        |
| 9         | 3.509       | 3.494        | 3.585      | VV       | 4619           | 106045       | 2.28%          | 0.073%        |
| 10        | 3.642       | 3.585        | 3.671      | VV       | 4064           | 77336        | 1.66%          | 0.053%        |
| 11        | 3.685       | 3.671        | 3.748      | VV       | 2319           | 43868        | 0.94%          | 0.030%        |
| 12        | 3.806       | 3.748        | 3.903      | VV       | 8244           | 159096       | 3.42%          | 0.109%        |
| 13        | 3.938       | 3.903        | 3.959      | PV       | 50053          | 714678       | 15.37%         | 0.489%        |
| 14        | 3.971       | 3.959        | 4.057      | VV       | 27134          | 500748       | 10.77%         | 0.343%        |
| 15        | 4.096       | 4.057        | 4.136      | VV       | 5241           | 122648       | 2.64%          | 0.084%        |
| 16        | 4.174       | 4.136        | 4.216      | VV       | 2336           | 74117        | 1.59%          | 0.051%        |
| 17        | 4.256       | 4.216        | 4.279      | VV       | 2618           | 53923        | 1.16%          | 0.037%        |
| 18        | 4.314       | 4.279        | 4.361      | VV       | 8196           | 148262       | 3.19%          | 0.101%        |
| 19        | 4.399       | 4.361        | 4.490      | VV       | 29075          | 491853       | 10.58%         | 0.336%        |
| 20        | 4.499       | 4.490        | 4.516      | VV       | 1106           | 13628        | 0.29%          | 0.009%        |
| 21        | 4.541       | 4.516        | 4.579      | VV       | 5349           | 112516       | 2.42%          | 0.077%        |
| 22        | 4.589       | 4.579        | 4.613      | VV       | 2492           | 35783        | 0.77%          | 0.024%        |
| 23        | 4.645       | 4.613        | 4.668      | VV       | 4249           | 86407        | 1.86%          | 0.059%        |
| 24        | 4.694       | 4.668        | 4.758      | VV       | 8497           | 157211       | 3.38%          | 0.108%        |
| 25        | 4.779       | 4.758        | 4.812      | VV       | 1624           | 34074        | 0.73%          | 0.023%        |
| 26        | 4.820       | 4.812        | 4.836      | VV       | 928            | 10906        | 0.23%          | 0.007%        |
| 27        | 4.874       | 4.836        | 4.896      | VV       | 3709           | 77101        | 1.66%          | 0.053%        |
| 28        | 4.924       | 4.896        | 4.974      | VV       | 11528          | 254762       | 5.48%          | 0.174%        |
| 29        | 4.992       | 4.974        | 5.027      | VV       | 10910          | 231671       | 4.98%          | 0.158%        |
| 30        | 5.045       | 5.027        | 5.124      | VV       | 14912          | 236303       | 5.08%          | 0.162%        |
| 31        | 5.163       | 5.124        | 5.215      | VV       | 220560         | 2540876      | 54.65%         | 1.738%        |
| 32        | 5.227       | 5.215        | 5.254      | VV       | 5471           | 94912        | 2.04%          | 0.065%        |
| 33        | 5.271       | 5.254        | 5.321      | VV       | 10539          | 214675       | 4.62%          | 0.147%        |
| 34        | 5.329       | 5.321        | 5.401      | VV       | 1896           | 39967        | 0.86%          | 0.027%        |
| 35        | 5.415       | 5.401        | 5.423      | PV       | 719            | 6313         | 0.14%          | 0.004%        |
| 36        | 5.471       | 5.423        | 5.495      | VV       | 31600          | 468013       | 10.07%         | 0.320%        |

| rteres.txt |       |       |       |    |        |         |         |        |
|------------|-------|-------|-------|----|--------|---------|---------|--------|
| 37         | 5.513 | 5.495 | 5.523 | VV | 18205  | 220663  | 4.75%   | 0.151% |
| 38         | 5.537 | 5.523 | 5.556 | VV | 31330  | 377897  | 8.13%   | 0.259% |
| 39         | 5.566 | 5.556 | 5.580 | VV | 10795  | 118653  | 2.55%   | 0.081% |
| 40         | 5.593 | 5.580 | 5.652 | VV | 9892   | 155470  | 3.34%   | 0.106% |
|            |       |       |       |    |        |         |         |        |
| 41         | 5.705 | 5.652 | 5.717 | VV | 7864   | 130568  | 2.81%   | 0.089% |
| 42         | 5.728 | 5.717 | 5.747 | VV | 8274   | 127905  | 2.75%   | 0.088% |
| 43         | 5.759 | 5.747 | 5.782 | VV | 8113   | 114300  | 2.46%   | 0.078% |
| 44         | 5.805 | 5.782 | 5.825 | VV | 10261  | 138680  | 2.98%   | 0.095% |
| 45         | 5.836 | 5.825 | 5.848 | VV | 3405   | 41661   | 0.90%   | 0.029% |
|            |       |       |       |    |        |         |         |        |
| 46         | 5.860 | 5.848 | 5.886 | VV | 2972   | 51827   | 1.11%   | 0.035% |
| 47         | 5.897 | 5.886 | 5.912 | VV | 1670   | 20409   | 0.44%   | 0.014% |
| 48         | 5.942 | 5.912 | 5.963 | VV | 1726   | 32630   | 0.70%   | 0.022% |
| 49         | 6.031 | 5.963 | 6.077 | PV | 6544   | 167590  | 3.60%   | 0.115% |
| 50         | 6.121 | 6.077 | 6.130 | VV | 34003  | 365418  | 7.86%   | 0.250% |
|            |       |       |       |    |        |         |         |        |
| 51         | 6.147 | 6.130 | 6.179 | VV | 111386 | 1252109 | 26.93%  | 0.857% |
| 52         | 6.198 | 6.179 | 6.213 | VV | 60925  | 625839  | 13.46%  | 0.428% |
| 53         | 6.228 | 6.213 | 6.251 | VV | 62333  | 665360  | 14.31%  | 0.455% |
| 54         | 6.262 | 6.251 | 6.316 | VV | 7729   | 154558  | 3.32%   | 0.106% |
| 55         | 6.329 | 6.316 | 6.351 | VV | 1690   | 19307   | 0.42%   | 0.013% |
|            |       |       |       |    |        |         |         |        |
| 56         | 6.395 | 6.351 | 6.404 | VV | 4568   | 60028   | 1.29%   | 0.041% |
| 57         | 6.418 | 6.404 | 6.475 | VV | 6104   | 159033  | 3.42%   | 0.109% |
| 58         | 6.525 | 6.475 | 6.546 | VV | 10492  | 250426  | 5.39%   | 0.171% |
| 59         | 6.555 | 6.546 | 6.571 | VV | 4439   | 54640   | 1.18%   | 0.037% |
| 60         | 6.589 | 6.571 | 6.602 | VV | 5798   | 79156   | 1.70%   | 0.054% |
|            |       |       |       |    |        |         |         |        |
| 61         | 6.616 | 6.602 | 6.632 | VV | 5859   | 86649   | 1.86%   | 0.059% |
| 62         | 6.670 | 6.632 | 6.688 | VV | 5650   | 162445  | 3.49%   | 0.111% |
| 63         | 6.742 | 6.688 | 6.779 | VV | 25782  | 528935  | 11.38%  | 0.362% |
| 64         | 6.835 | 6.779 | 6.858 | VV | 32392  | 670806  | 14.43%  | 0.459% |
| 65         | 6.872 | 6.858 | 6.905 | VV | 8237   | 114910  | 2.47%   | 0.079% |
|            |       |       |       |    |        |         |         |        |
| 66         | 6.926 | 6.905 | 6.970 | VV | 6381   | 109968  | 2.37%   | 0.075% |
| 67         | 6.985 | 6.970 | 7.015 | VV | 2432   | 46196   | 0.99%   | 0.032% |
| 68         | 7.038 | 7.015 | 7.056 | VV | 20981  | 227337  | 4.89%   | 0.156% |
| 69         | 7.065 | 7.056 | 7.086 | VV | 6535   | 75232   | 1.62%   | 0.051% |
| 70         | 7.109 | 7.086 | 7.153 | VV | 25218  | 436124  | 9.38%   | 0.298% |
|            |       |       |       |    |        |         |         |        |
| 71         | 7.172 | 7.153 | 7.196 | VV | 22016  | 239482  | 5.15%   | 0.164% |
| 72         | 7.212 | 7.196 | 7.222 | VV | 12514  | 128884  | 2.77%   | 0.088% |
| 73         | 7.233 | 7.222 | 7.260 | VV | 12599  | 166571  | 3.58%   | 0.114% |
| 74         | 7.288 | 7.260 | 7.304 | VV | 13295  | 219934  | 4.73%   | 0.150% |
| 75         | 7.319 | 7.304 | 7.342 | VV | 18355  | 221672  | 4.77%   | 0.152% |
|            |       |       |       |    |        |         |         |        |
| 76         | 7.372 | 7.342 | 7.394 | VV | 12980  | 194717  | 4.19%   | 0.133% |
| 77         | 7.418 | 7.394 | 7.459 | VV | 454718 | 4649391 | 100.00% | 3.181% |
| 78         | 7.467 | 7.459 | 7.482 | VV | 5356   | 67623   | 1.45%   | 0.046% |
| 79         | 7.494 | 7.482 | 7.507 | VV | 5974   | 77182   | 1.66%   | 0.053% |
| 80         | 7.536 | 7.507 | 7.554 | VV | 11118  | 201767  | 4.34%   | 0.138% |
|            |       |       |       |    |        |         |         |        |
| 81         | 7.575 | 7.554 | 7.609 | VV | 16537  | 264950  | 5.70%   | 0.181% |
| 82         | 7.617 | 7.609 | 7.628 | VV | 3154   | 34176   | 0.74%   | 0.023% |
| 83         | 7.670 | 7.628 | 7.679 | VV | 6767   | 127469  | 2.74%   | 0.087% |
| 84         | 7.695 | 7.679 | 7.717 | VV | 10467  | 157733  | 3.39%   | 0.108% |
| 85         | 7.739 | 7.717 | 7.761 | VV | 6357   | 119205  | 2.56%   | 0.082% |
|            |       |       |       |    |        |         |         |        |
| 86         | 7.802 | 7.761 | 7.826 | VV | 27397  | 413617  | 8.90%   | 0.283% |
| 87         | 7.840 | 7.826 | 7.882 | VV | 8861   | 163878  | 3.52%   | 0.112% |
| 88         | 7.894 | 7.882 | 7.906 | VV | 4278   | 46131   | 0.99%   | 0.032% |
| 89         | 7.950 | 7.906 | 8.004 | VV | 57645  | 867126  | 18.65%  | 0.593% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 90         | 8.038  | 8.004  | 8.054  | VV | 24554  | 300373  | 6.46%  | 0.205% |
| 91         | 8.074  | 8.054  | 8.112  | VV | 102057 | 1208204 | 25.99% | 0.827% |
| 92         | 8.121  | 8.112  | 8.135  | VV | 5796   | 74800   | 1.61%  | 0.051% |
| 93         | 8.149  | 8.135  | 8.167  | VV | 7387   | 106640  | 2.29%  | 0.073% |
| 94         | 8.177  | 8.167  | 8.200  | VV | 4750   | 63330   | 1.36%  | 0.043% |
| 95         | 8.220  | 8.200  | 8.245  | VV | 3824   | 77802   | 1.67%  | 0.053% |
| 96         | 8.272  | 8.245  | 8.307  | VV | 304474 | 3234538 | 69.57% | 2.213% |
| 97         | 8.321  | 8.307  | 8.352  | VV | 9244   | 171573  | 3.69%  | 0.117% |
| 98         | 8.372  | 8.352  | 8.399  | VV | 6045   | 135390  | 2.91%  | 0.093% |
| 99         | 8.422  | 8.399  | 8.436  | VV | 5958   | 101257  | 2.18%  | 0.069% |
| 100        | 8.448  | 8.436  | 8.462  | VV | 5224   | 77013   | 1.66%  | 0.053% |
| 101        | 8.474  | 8.462  | 8.496  | VV | 4894   | 85846   | 1.85%  | 0.059% |
| 102        | 8.514  | 8.496  | 8.539  | VV | 6160   | 108727  | 2.34%  | 0.074% |
| 103        | 8.556  | 8.539  | 8.586  | VV | 4780   | 113437  | 2.44%  | 0.078% |
| 104        | 8.621  | 8.586  | 8.665  | VV | 16896  | 350265  | 7.53%  | 0.240% |
| 105        | 8.686  | 8.665  | 8.701  | VV | 5787   | 103543  | 2.23%  | 0.071% |
| 106        | 8.721  | 8.701  | 8.756  | VV | 7995   | 166691  | 3.59%  | 0.114% |
| 107        | 8.801  | 8.756  | 8.819  | VV | 7883   | 183207  | 3.94%  | 0.125% |
| 108        | 8.829  | 8.819  | 8.866  | VV | 4018   | 105843  | 2.28%  | 0.072% |
| 109        | 8.885  | 8.866  | 8.909  | VV | 5328   | 105357  | 2.27%  | 0.072% |
| 110        | 8.925  | 8.909  | 8.949  | VV | 3869   | 65830   | 1.42%  | 0.045% |
| 111        | 8.964  | 8.949  | 8.975  | VV | 3317   | 40459   | 0.87%  | 0.028% |
| 112        | 9.013  | 8.975  | 9.053  | VV | 10237  | 249785  | 5.37%  | 0.171% |
| 113        | 9.070  | 9.053  | 9.088  | VV | 4657   | 82828   | 1.78%  | 0.057% |
| 114        | 9.104  | 9.088  | 9.122  | VV | 6696   | 89777   | 1.93%  | 0.061% |
| 115        | 9.163  | 9.122  | 9.171  | VV | 5724   | 124741  | 2.68%  | 0.085% |
| 116        | 9.179  | 9.171  | 9.202  | VV | 5846   | 71573   | 1.54%  | 0.049% |
| 117        | 9.223  | 9.202  | 9.238  | VV | 6995   | 88282   | 1.90%  | 0.060% |
| 118        | 9.252  | 9.238  | 9.268  | VV | 4798   | 70982   | 1.53%  | 0.049% |
| 119        | 9.287  | 9.268  | 9.338  | VV | 10960  | 197132  | 4.24%  | 0.135% |
| 120        | 9.363  | 9.338  | 9.383  | VV | 6115   | 103651  | 2.23%  | 0.071% |
| 121        | 9.404  | 9.383  | 9.447  | VV | 15802  | 243396  | 5.24%  | 0.167% |
| 122        | 9.455  | 9.447  | 9.471  | VV | 3011   | 35288   | 0.76%  | 0.024% |
| 123        | 9.487  | 9.471  | 9.512  | VV | 2172   | 47911   | 1.03%  | 0.033% |
| 124        | 9.529  | 9.512  | 9.550  | VV | 2364   | 35839   | 0.77%  | 0.025% |
| 125        | 9.590  | 9.550  | 9.664  | VV | 24959  | 474096  | 10.20% | 0.324% |
| 126        | 9.672  | 9.664  | 9.714  | VV | 1500   | 17899   | 0.38%  | 0.012% |
| 127        | 9.738  | 9.714  | 9.754  | VV | 770    | 9918    | 0.21%  | 0.007% |
| 128        | 9.767  | 9.754  | 9.782  | PV | 972    | 9007    | 0.19%  | 0.006% |
| 129        | 9.826  | 9.782  | 9.839  | VV | 9948   | 140915  | 3.03%  | 0.096% |
| 130        | 9.854  | 9.839  | 9.901  | VV | 22868  | 296952  | 6.39%  | 0.203% |
| 131        | 9.913  | 9.901  | 9.927  | VV | 923    | 10885   | 0.23%  | 0.007% |
| 132        | 9.962  | 9.927  | 9.982  | VV | 1787   | 35447   | 0.76%  | 0.024% |
| 133        | 9.999  | 9.982  | 10.040 | VV | 2559   | 58989   | 1.27%  | 0.040% |
| 134        | 10.056 | 10.040 | 10.092 | VV | 2276   | 39622   | 0.85%  | 0.027% |
| 135        | 10.103 | 10.092 | 10.114 | VV | 943    | 7051    | 0.15%  | 0.005% |
| 136        | 10.133 | 10.114 | 10.170 | VV | 5740   | 73677   | 1.58%  | 0.050% |
| 137        | 10.195 | 10.170 | 10.214 | VV | 5217   | 73888   | 1.59%  | 0.051% |
| 138        | 10.228 | 10.214 | 10.241 | VV | 2281   | 31293   | 0.67%  | 0.021% |
| 139        | 10.258 | 10.241 | 10.284 | VV | 4726   | 67874   | 1.46%  | 0.046% |
| 140        | 10.307 | 10.284 | 10.321 | VV | 9728   | 118251  | 2.54%  | 0.081% |
| 141        | 10.330 | 10.321 | 10.347 | VV | 5673   | 70084   | 1.51%  | 0.048% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 142        | 10.369 | 10.347 | 10.396 | VV | 7903   | 125494  | 2.70%  | 0.086% |
| 143        | 10.413 | 10.396 | 10.429 | VV | 4187   | 59151   | 1.27%  | 0.040% |
| 144        | 10.439 | 10.429 | 10.456 | VV | 2805   | 34402   | 0.74%  | 0.024% |
| 145        | 10.474 | 10.456 | 10.492 | VV | 2839   | 38785   | 0.83%  | 0.027% |
| 146        | 10.504 | 10.492 | 10.512 | VV | 1430   | 12787   | 0.28%  | 0.009% |
| 147        | 10.535 | 10.512 | 10.589 | VV | 54165  | 643416  | 13.84% | 0.440% |
| 148        | 10.613 | 10.589 | 10.657 | VV | 15507  | 247684  | 5.33%  | 0.169% |
| 149        | 10.686 | 10.657 | 10.702 | VV | 2151   | 45034   | 0.97%  | 0.031% |
| 150        | 10.719 | 10.702 | 10.745 | VV | 2566   | 41529   | 0.89%  | 0.028% |
| 151        | 10.792 | 10.745 | 10.817 | VV | 3031   | 73873   | 1.59%  | 0.051% |
| 152        | 10.854 | 10.817 | 10.866 | VV | 3330   | 61182   | 1.32%  | 0.042% |
| 153        | 10.884 | 10.866 | 10.901 | VV | 4273   | 62987   | 1.35%  | 0.043% |
| 154        | 10.908 | 10.901 | 10.935 | VV | 2517   | 40546   | 0.87%  | 0.028% |
| 155        | 10.955 | 10.935 | 10.979 | VV | 1761   | 41748   | 0.90%  | 0.029% |
| 156        | 11.007 | 10.979 | 11.045 | VV | 10723  | 211752  | 4.55%  | 0.145% |
| 157        | 11.073 | 11.045 | 11.117 | VV | 9679   | 193384  | 4.16%  | 0.132% |
| 158        | 11.137 | 11.117 | 11.156 | VV | 2145   | 36767   | 0.79%  | 0.025% |
| 159        | 11.170 | 11.156 | 11.192 | VV | 2805   | 34336   | 0.74%  | 0.023% |
| 160        | 11.225 | 11.192 | 11.263 | VV | 3318   | 70453   | 1.52%  | 0.048% |
| 161        | 11.307 | 11.263 | 11.352 | PV | 231004 | 2805064 | 60.33% | 1.919% |
| 162        | 11.366 | 11.352 | 11.414 | VV | 11197  | 143594  | 3.09%  | 0.098% |
| 163        | 11.447 | 11.414 | 11.462 | VV | 11458  | 180861  | 3.89%  | 0.124% |
| 164        | 11.481 | 11.462 | 11.497 | VV | 13262  | 184902  | 3.98%  | 0.126% |
| 165        | 11.513 | 11.497 | 11.559 | VV | 11753  | 162337  | 3.49%  | 0.111% |
| 166        | 11.588 | 11.559 | 11.614 | VV | 3105   | 58632   | 1.26%  | 0.040% |
| 167        | 11.641 | 11.614 | 11.656 | VV | 7652   | 126482  | 2.72%  | 0.087% |
| 168        | 11.671 | 11.656 | 11.687 | VV | 11482  | 153195  | 3.29%  | 0.105% |
| 169        | 11.702 | 11.687 | 11.761 | VV | 10142  | 227198  | 4.89%  | 0.155% |
| 170        | 11.771 | 11.761 | 11.787 | VV | 2490   | 36352   | 0.78%  | 0.025% |
| 171        | 11.807 | 11.787 | 11.840 | VV | 15326  | 222626  | 4.79%  | 0.152% |
| 172        | 11.856 | 11.840 | 11.879 | VV | 3926   | 61982   | 1.33%  | 0.042% |
| 173        | 11.944 | 11.879 | 11.988 | VV | 5059   | 193055  | 4.15%  | 0.132% |
| 174        | 12.009 | 11.988 | 12.023 | VV | 4805   | 70985   | 1.53%  | 0.049% |
| 175        | 12.055 | 12.023 | 12.107 | VV | 7146   | 189014  | 4.07%  | 0.129% |
| 176        | 12.125 | 12.107 | 12.162 | VV | 4015   | 86021   | 1.85%  | 0.059% |
| 177        | 12.184 | 12.162 | 12.209 | VV | 15279  | 204395  | 4.40%  | 0.140% |
| 178        | 12.231 | 12.209 | 12.248 | VV | 15033  | 219138  | 4.71%  | 0.150% |
| 179        | 12.261 | 12.248 | 12.282 | VV | 10680  | 160703  | 3.46%  | 0.110% |
| 180        | 12.308 | 12.282 | 12.321 | VV | 12573  | 216983  | 4.67%  | 0.148% |
| 181        | 12.341 | 12.321 | 12.394 | VV | 94026  | 1186519 | 25.52% | 0.812% |
| 182        | 12.401 | 12.394 | 12.415 | VV | 1506   | 14187   | 0.31%  | 0.010% |
| 183        | 12.439 | 12.415 | 12.456 | VV | 2742   | 43322   | 0.93%  | 0.030% |
| 184        | 12.479 | 12.456 | 12.522 | VV | 17292  | 296176  | 6.37%  | 0.203% |
| 185        | 12.525 | 12.522 | 12.542 | VV | 4662   | 46791   | 1.01%  | 0.032% |
| 186        | 12.581 | 12.542 | 12.605 | VV | 7348   | 195502  | 4.20%  | 0.134% |
| 187        | 12.635 | 12.605 | 12.662 | VV | 145910 | 1729459 | 37.20% | 1.183% |
| 188        | 12.681 | 12.662 | 12.716 | VV | 8550   | 215016  | 4.62%  | 0.147% |
| 189        | 12.750 | 12.716 | 12.838 | VV | 150533 | 2063642 | 44.39% | 1.412% |
| 190        | 12.849 | 12.838 | 12.872 | VV | 1635   | 23575   | 0.51%  | 0.016% |
| 191        | 12.920 | 12.872 | 12.959 | PV | 8793   | 200378  | 4.31%  | 0.137% |
| 192        | 12.972 | 12.959 | 12.999 | VV | 3905   | 60668   | 1.30%  | 0.042% |
| 193        | 13.033 | 12.999 | 13.041 | VV | 3955   | 57791   | 1.24%  | 0.040% |
| 194        | 13.059 | 13.041 | 13.074 | VV | 5244   | 85096   | 1.83%  | 0.058% |

| rteres.txt |        |        |        |    |       |         |        |        |
|------------|--------|--------|--------|----|-------|---------|--------|--------|
| 195        | 13.097 | 13.074 | 13.118 | VV | 11046 | 200590  | 4.31%  | 0.137% |
| 196        | 13.133 | 13.118 | 13.180 | VV | 7292  | 174123  | 3.75%  | 0.119% |
| 197        | 13.226 | 13.180 | 13.277 | VV | 19497 | 539626  | 11.61% | 0.369% |
| 198        | 13.294 | 13.277 | 13.314 | VV | 5367  | 81858   | 1.76%  | 0.056% |
| 199        | 13.337 | 13.314 | 13.352 | VV | 7388  | 109847  | 2.36%  | 0.075% |
| 200        | 13.371 | 13.352 | 13.396 | VV | 18417 | 248098  | 5.34%  | 0.170% |
| 201        | 13.411 | 13.396 | 13.434 | VV | 3246  | 57656   | 1.24%  | 0.039% |
| 202        | 13.456 | 13.434 | 13.473 | VV | 4547  | 73705   | 1.59%  | 0.050% |
| 203        | 13.499 | 13.473 | 13.519 | VV | 25565 | 333218  | 7.17%  | 0.228% |
| 204        | 13.538 | 13.519 | 13.587 | VV | 16543 | 279159  | 6.00%  | 0.191% |
| 205        | 13.607 | 13.587 | 13.652 | VV | 5402  | 119330  | 2.57%  | 0.082% |
| 206        | 13.680 | 13.652 | 13.706 | VV | 3786  | 80129   | 1.72%  | 0.055% |
| 207        | 13.718 | 13.706 | 13.731 | VV | 2162  | 27764   | 0.60%  | 0.019% |
| 208        | 13.754 | 13.731 | 13.777 | VV | 2916  | 54877   | 1.18%  | 0.038% |
| 209        | 13.810 | 13.777 | 13.824 | VV | 2552  | 53045   | 1.14%  | 0.036% |
| 210        | 13.859 | 13.824 | 13.880 | VV | 3718  | 86017   | 1.85%  | 0.059% |
| 211        | 13.925 | 13.880 | 13.942 | VV | 5718  | 142836  | 3.07%  | 0.098% |
| 212        | 13.964 | 13.942 | 13.999 | VV | 13417 | 247712  | 5.33%  | 0.169% |
| 213        | 14.019 | 13.999 | 14.042 | VV | 3101  | 72768   | 1.57%  | 0.050% |
| 214        | 14.060 | 14.042 | 14.086 | VV | 6395  | 102256  | 2.20%  | 0.070% |
| 215        | 14.136 | 14.086 | 14.172 | VV | 12724 | 353019  | 7.59%  | 0.242% |
| 216        | 14.196 | 14.172 | 14.242 | VV | 44396 | 633395  | 13.62% | 0.433% |
| 217        | 14.271 | 14.242 | 14.303 | VV | 12057 | 201530  | 4.33%  | 0.138% |
| 218        | 14.323 | 14.303 | 14.334 | VV | 2509  | 41391   | 0.89%  | 0.028% |
| 219        | 14.354 | 14.334 | 14.439 | VV | 4053  | 125090  | 2.69%  | 0.086% |
| 220        | 14.460 | 14.439 | 14.481 | VV | 12437 | 160759  | 3.46%  | 0.110% |
| 221        | 14.507 | 14.481 | 14.527 | VV | 59108 | 754645  | 16.23% | 0.516% |
| 222        | 14.547 | 14.527 | 14.584 | VV | 83285 | 1154357 | 24.83% | 0.790% |
| 223        | 14.605 | 14.584 | 14.629 | VV | 4772  | 90841   | 1.95%  | 0.062% |
| 224        | 14.671 | 14.629 | 14.724 | VV | 26032 | 524326  | 11.28% | 0.359% |
| 225        | 14.739 | 14.724 | 14.778 | VV | 5208  | 80467   | 1.73%  | 0.055% |
| 226        | 14.793 | 14.778 | 14.801 | VV | 1264  | 10614   | 0.23%  | 0.007% |
| 227        | 14.821 | 14.801 | 14.859 | VV | 4590  | 94359   | 2.03%  | 0.065% |
| 228        | 14.867 | 14.859 | 14.901 | VV | 2721  | 46694   | 1.00%  | 0.032% |
| 229        | 14.911 | 14.901 | 14.927 | VV | 1305  | 15457   | 0.33%  | 0.011% |
| 230        | 14.966 | 14.927 | 14.981 | VV | 6006  | 119392  | 2.57%  | 0.082% |
| 231        | 14.996 | 14.981 | 15.028 | VV | 5547  | 120486  | 2.59%  | 0.082% |
| 232        | 15.042 | 15.028 | 15.062 | VV | 3849  | 62067   | 1.33%  | 0.042% |
| 233        | 15.068 | 15.062 | 15.080 | VV | 2770  | 25983   | 0.56%  | 0.018% |
| 234        | 15.095 | 15.080 | 15.106 | VV | 3322  | 42959   | 0.92%  | 0.029% |
| 235        | 15.137 | 15.106 | 15.153 | VV | 5597  | 115325  | 2.48%  | 0.079% |
| 236        | 15.179 | 15.153 | 15.201 | VV | 25733 | 358572  | 7.71%  | 0.245% |
| 237        | 15.216 | 15.201 | 15.248 | VV | 7752  | 132606  | 2.85%  | 0.091% |
| 238        | 15.339 | 15.248 | 15.374 | VV | 16379 | 490205  | 10.54% | 0.335% |
| 239        | 15.420 | 15.374 | 15.480 | VV | 9062  | 207276  | 4.46%  | 0.142% |
| 240        | 15.504 | 15.480 | 15.530 | VV | 10059 | 135631  | 2.92%  | 0.093% |
| 241        | 15.564 | 15.530 | 15.597 | VV | 3306  | 98737   | 2.12%  | 0.068% |
| 242        | 15.617 | 15.597 | 15.668 | VV | 5816  | 114998  | 2.47%  | 0.079% |
| 243        | 15.681 | 15.668 | 15.721 | VV | 1659  | 31662   | 0.68%  | 0.022% |
| 244        | 15.803 | 15.721 | 15.841 | VV | 4431  | 134040  | 2.88%  | 0.092% |
| 245        | 15.880 | 15.841 | 15.895 | PV | 3217  | 64861   | 1.40%  | 0.044% |
| 246        | 15.914 | 15.895 | 15.942 | VV | 5963  | 104182  | 2.24%  | 0.071% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 247 | 15.978 | 15.942 | 15.987 | VV | 7469       | 109805  | 2.36%  | 0.075% |
| 248 | 16.001 | 15.987 | 16.024 | VV | 10525      | 156915  | 3.37%  | 0.107% |
| 249 | 16.059 | 16.024 | 16.079 | VV | 106718     | 1570944 | 33.79% | 1.075% |
| 250 | 16.087 | 16.079 | 16.148 | VV | 39681      | 495130  | 10.65% | 0.339% |
| 251 | 16.190 | 16.148 | 16.227 | VV | 12693      | 221019  | 4.75%  | 0.151% |
| 252 | 16.254 | 16.227 | 16.291 | VV | 3911       | 101073  | 2.17%  | 0.069% |
| 253 | 16.313 | 16.291 | 16.332 | VV | 2492       | 45844   | 0.99%  | 0.031% |
| 254 | 16.377 | 16.332 | 16.412 | VV | 118450     | 1643723 | 35.35% | 1.125% |
| 255 | 16.434 | 16.412 | 16.481 | VV | 47488      | 736650  | 15.84% | 0.504% |
| 256 | 16.504 | 16.481 | 16.518 | VV | 7263       | 116618  | 2.51%  | 0.080% |
| 257 | 16.538 | 16.518 | 16.576 | VV | 11505      | 259987  | 5.59%  | 0.178% |
| 258 | 16.596 | 16.576 | 16.627 | VV | 9967       | 164721  | 3.54%  | 0.113% |
| 259 | 16.685 | 16.627 | 16.731 | VV | 7040       | 263706  | 5.67%  | 0.180% |
| 260 | 16.740 | 16.731 | 16.760 | VV | 3151       | 45823   | 0.99%  | 0.031% |
| 261 | 16.803 | 16.760 | 16.875 | VV | 10478      | 346923  | 7.46%  | 0.237% |
| 262 | 16.933 | 16.875 | 16.951 | VV | 10576      | 257597  | 5.54%  | 0.176% |
| 263 | 16.964 | 16.951 | 16.991 | VV | 8034       | 143795  | 3.09%  | 0.098% |
| 264 | 17.011 | 16.991 | 17.037 | VV | 10683      | 188344  | 4.05%  | 0.129% |
| 265 | 17.056 | 17.037 | 17.065 | VV | 4289       | 65331   | 1.41%  | 0.045% |
| 266 | 17.092 | 17.065 | 17.116 | VV | 10554      | 215821  | 4.64%  | 0.148% |
| 267 | 17.133 | 17.116 | 17.185 | VV | 10843      | 265669  | 5.71%  | 0.182% |
| 268 | 17.202 | 17.185 | 17.225 | VV | 3687       | 76834   | 1.65%  | 0.053% |
| 269 | 17.244 | 17.225 | 17.264 | VV | 4356       | 74184   | 1.60%  | 0.051% |
| 270 | 17.287 | 17.264 | 17.298 | VV | 3838       | 60292   | 1.30%  | 0.041% |
| 271 | 17.308 | 17.298 | 17.325 | VV | 3017       | 42390   | 0.91%  | 0.029% |
| 272 | 17.346 | 17.325 | 17.354 | VV | 4373       | 60782   | 1.31%  | 0.042% |
| 273 | 17.378 | 17.354 | 17.391 | VV | 5994       | 113656  | 2.44%  | 0.078% |
| 274 | 17.398 | 17.391 | 17.414 | VV | 5357       | 68105   | 1.46%  | 0.047% |
| 275 | 17.444 | 17.414 | 17.471 | VV | 11552      | 273392  | 5.88%  | 0.187% |
| 276 | 17.523 | 17.471 | 17.542 | VV | 13130      | 341304  | 7.34%  | 0.233% |
| 277 | 17.551 | 17.542 | 17.566 | VV | 8212       | 107252  | 2.31%  | 0.073% |
| 278 | 17.585 | 17.566 | 17.619 | VV | 14069      | 319628  | 6.87%  | 0.219% |
| 279 | 17.629 | 17.619 | 17.645 | VV | 7780       | 119324  | 2.57%  | 0.082% |
| 280 | 17.671 | 17.645 | 17.687 | VV | 20411      | 333667  | 7.18%  | 0.228% |
| 281 | 17.710 | 17.687 | 17.761 | VV | 28490      | 671484  | 14.44% | 0.459% |
| 282 | 17.803 | 17.761 | 17.830 | VV | 81144      | 1299583 | 27.95% | 0.889% |
| 283 | 17.857 | 17.830 | 17.910 | VV | 20767      | 751960  | 16.17% | 0.514% |
| 284 | 17.939 | 17.910 | 17.951 | VV | 17635      | 327347  | 7.04%  | 0.224% |
| 285 | 17.968 | 17.951 | 18.024 | VV | 21920      | 686631  | 14.77% | 0.470% |
| 286 | 18.053 | 18.024 | 18.096 | VV | 112783     | 1741025 | 37.45% | 1.191% |
| 287 | 18.109 | 18.096 | 18.126 | VV | 11629      | 203528  | 4.38%  | 0.139% |
| 288 | 18.139 | 18.126 | 18.159 | VV | 12411      | 231193  | 4.97%  | 0.158% |
| 289 | 18.189 | 18.159 | 18.229 | VV | 13602      | 503542  | 10.83% | 0.344% |
| 290 | 18.275 | 18.229 | 18.296 | VV | 17804      | 567098  | 12.20% | 0.388% |
| 291 | 18.307 | 18.296 | 18.326 | VV | 15462      | 260374  | 5.60%  | 0.178% |
| 292 | 18.368 | 18.326 | 18.389 | VV | 17060      | 572651  | 12.32% | 0.392% |
| 293 | 18.395 | 18.389 | 18.427 | VV | 16426      | 352378  | 7.58%  | 0.241% |
| 294 | 18.490 | 18.427 | 18.512 | VV | 19181      | 854160  | 18.37% | 0.584% |
| 295 | 18.530 | 18.512 | 18.542 | VV | 16557      | 288475  | 6.20%  | 0.197% |
| 296 | 18.571 | 18.542 | 18.604 | VV | 19791      | 639161  | 13.75% | 0.437% |
| 297 | 18.626 | 18.604 | 18.643 | VV | 20124      | 421382  | 9.06%  | 0.288% |
| 298 | 18.677 | 18.643 | 18.694 | VV | 21085      | 594807  | 12.79% | 0.407% |
| 299 | 18.745 | 18.694 | 18.767 | VV | 25677      | 971783  | 20.90% | 0.665% |

| rteres.txt |        |        |        |     |       |         |        |        |
|------------|--------|--------|--------|-----|-------|---------|--------|--------|
| 300        | 18.776 | 18.767 | 18.789 | VV  | 22699 | 299650  | 6.44%  | 0.205% |
| 301        | 18.798 | 18.789 | 18.828 | VV  | 22389 | 488594  | 10.51% | 0.334% |
| 302        | 18.842 | 18.828 | 18.857 | VV  | 20382 | 342653  | 7.37%  | 0.234% |
| 303        | 18.869 | 18.857 | 18.881 | VV  | 19309 | 266709  | 5.74%  | 0.182% |
| 304        | 18.932 | 18.881 | 18.954 | VV  | 23056 | 929547  | 19.99% | 0.636% |
| 305        | 18.962 | 18.954 | 18.981 | VV  | 22621 | 351562  | 7.56%  | 0.241% |
| 306        | 18.999 | 18.981 | 19.016 | VV  | 23999 | 490126  | 10.54% | 0.335% |
| 307        | 19.023 | 19.016 | 19.034 | VV  | 24172 | 259930  | 5.59%  | 0.178% |
| 308        | 19.058 | 19.034 | 19.073 | VV  | 26374 | 586817  | 12.62% | 0.401% |
| 309        | 19.087 | 19.073 | 19.109 | VV  | 24356 | 503823  | 10.84% | 0.345% |
| 310        | 19.212 | 19.109 | 19.242 | VV  | 42578 | 2388906 | 51.38% | 1.634% |
| 311        | 19.279 | 19.242 | 19.319 | VV  | 48117 | 1704453 | 36.66% | 1.166% |
| 312        | 19.363 | 19.319 | 19.394 | VV  | 41413 | 1627094 | 35.00% | 1.113% |
| 313        | 19.406 | 19.394 | 19.416 | VV  | 35705 | 452790  | 9.74%  | 0.310% |
| 314        | 19.422 | 19.416 | 19.459 | VV  | 35559 | 858099  | 18.46% | 0.587% |
| 315        | 19.497 | 19.459 | 19.506 | VV  | 34748 | 892027  | 19.19% | 0.610% |
| 316        | 19.512 | 19.506 | 19.527 | VV  | 34120 | 428949  | 9.23%  | 0.293% |
| 317        | 19.586 | 19.527 | 19.642 | VV  | 65926 | 3309819 | 71.19% | 2.264% |
| 318        | 19.666 | 19.642 | 19.676 | VV  | 45682 | 877318  | 18.87% | 0.600% |
| 319        | 19.700 | 19.676 | 19.759 | VV  | 46735 | 2103700 | 45.25% | 1.439% |
| 320        | 19.802 | 19.759 | 19.822 | VV  | 40199 | 1440699 | 30.99% | 0.986% |
| 321        | 19.869 | 19.822 | 19.877 | VV  | 46458 | 1406390 | 30.25% | 0.962% |
| 322        | 19.891 | 19.877 | 19.899 | VV  | 47185 | 597439  | 12.85% | 0.409% |
| 323        | 19.908 | 19.899 | 19.917 | VV  | 47669 | 525752  | 11.31% | 0.360% |
| 324        | 19.941 | 19.917 | 19.974 | VV  | 51420 | 1656830 | 35.64% | 1.133% |
| 325        | 19.981 | 19.974 | 20.041 | VV  | 50442 | 1906879 | 41.01% | 1.305% |
| 326        | 20.053 | 20.041 | 20.062 | VV  | 45664 | 569876  | 12.26% | 0.390% |
| 327        | 20.071 | 20.062 | 20.082 | VV  | 46143 | 556207  | 11.96% | 0.381% |
| 328        | 20.092 | 20.082 | 20.106 | VV  | 47213 | 644171  | 13.85% | 0.441% |
| 329        | 20.162 | 20.106 | 20.185 | VV  | 53250 | 2341770 | 50.37% | 1.602% |
| 330        | 20.191 | 20.185 | 20.202 | VV  | 51718 | 537307  | 11.56% | 0.368% |
| 331        | 20.231 | 20.202 | 20.247 | VV  | 57009 | 1424093 | 30.63% | 0.974% |
| 332        | 20.293 | 20.247 | 20.314 | VV  | 55095 | 2159878 | 46.46% | 1.478% |
| 333        | 20.374 | 20.314 | 20.387 | VV  | 60100 | 2483327 | 53.41% | 1.699% |
| 334        | 20.409 | 20.387 | 20.477 | VV  | 63332 | 3086527 | 66.39% | 2.112% |
| 335        | 20.498 | 20.477 | 20.523 | VV  | 53583 | 1423473 | 30.62% | 0.974% |
| 336        | 20.558 | 20.523 | 20.571 | VV  | 53650 | 1510708 | 32.49% | 1.034% |
| 337        | 20.588 | 20.571 | 20.620 | VV  | 55492 | 1569044 | 33.75% | 1.073% |
| 338        | 20.673 | 20.620 | 20.692 | VV  | 55028 | 2218926 | 47.73% | 1.518% |
| 339        | 20.725 | 20.692 | 20.744 | VV  | 56775 | 1703860 | 36.65% | 1.166% |
| 340        | 20.754 | 20.744 | 20.867 | VV  | 57580 | 3644496 | 78.39% | 2.493% |
| 341        | 20.910 | 20.867 | 20.924 | VV  | 49266 | 1599528 | 34.40% | 1.094% |
| 342        | 20.951 | 20.924 | 20.969 | VV  | 50752 | 1354131 | 29.12% | 0.926% |
| 343        | 21.009 | 20.969 | 21.050 | VV  | 52641 | 2471903 | 53.17% | 1.691% |
| 344        | 21.070 | 21.050 | 21.107 | VV  | 51170 | 1702388 | 36.62% | 1.165% |
| 345        | 21.124 | 21.107 | 21.199 | VV  | 47362 | 2318417 | 49.86% | 1.586% |
| 346        | 21.209 | 21.199 | 21.222 | VV  | 37227 | 496476  | 10.68% | 0.340% |
| 347        | 21.261 | 21.222 | 21.271 | VV  | 44806 | 1213288 | 26.10% | 0.830% |
| 348        | 21.295 | 21.271 | 21.312 | VV  | 45856 | 1124333 | 24.18% | 0.769% |
| 349        | 21.323 | 21.312 | 21.336 | VV  | 45008 | 618408  | 13.30% | 0.423% |
| 350        | 21.369 | 21.336 | 21.401 | VBA | 48402 | 1834627 | 39.46% | 1.255% |

Sum of corrected areas: 146173161

rteres.txt

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